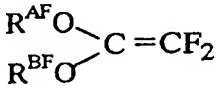
Claim 35 is rejected under 35 U.S.C. § 102(b) over U.S. Patent No. 5,006,594 ("Rees"). The Office Action asserts

> Rees discloses the presently claimed fluororesin, derived from a fluorinated vinyl ether (see Perfluoroelastomers #1 and #2 in Table 1). Office Action at page 2, lines 16-17.

However, Rees discloses that perfluoroelastomer #1 is "a commercially available copolymer of tetrafluoroethylene [i.e., $CF_2=CF_2$], perfluoro(methyl vinyl ether) [i.e., $CF_2=CFOCF_3$] and perfluoro(phenoxy vinyl ether) [i.e., $CF_2=CFOOC_6F_5$]". In addition, Rees discloses that perfluoroelastomer #2 is "a commercially available copolymer of tetrafluoroethylene [i.e., $CF_2=CF_2$], perfluoro(methyl vinyl ether) [i.e., $CF_2=CFOCF_3$] and vinylidene fluoride [i.e., $CH_2=CF_2$]". Rees at column 7, Table 1. For the chemical formulas, see, e.g., Hawley's Condensed Chemical Dictionary, 12th edition, pages 782 and 1217, copies attached; and CRC Handbook of Chemistry and Physics, 77th edition, pages 3-163 and 3-464, copies attached.

Rees fails to suggest the Claim 35 limitation of a "fluororesin comprising polymerization product of the fluorinated vinyl ether of formula (10) prepared according to the process of Claim 34



(10)

...".

In particular, because the monomers forming the copolymers of Rees' perfluorelastomers #1 and #2 do not include a "$=C(-O-)_2$" moiety, the backbones of the copolymers of Rees' perfluorelastomers #1 and #2 do not include the "$-C(-O-)_2-$" moiety appearing in the backbone of Claim 35's "polymerization product".

Because Rees fails to suggest all of the limitations of Claim 35, the rejection over Rees should be withdrawn.

Claims 18-34 are rejected under the judicially created doctrine of double patenting over Claims 1-16 of U.S. Patent No. 6,747,174, which issued from the parent of the above-identified application. To obviate the double patenting rejection, a Terminal Disclaimer is attached.

In view of the foregoing amendments and remarks, Applicants respectfully submit that the application is in condition for allowance. Applicants respectfully request favorable consideration and prompt allowance of the application.

Should the Examiner believe that anything further is necessary in order to place the application in even better condition for allowance, the Examiner is invited to contact Applicants' undersigned attorney at the telephone number listed below.

Respectfully submitted,

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MAIER & NEUSTADT, P.C.
Norman F. Oblon

Corwin Paul Umbach

Corwin P. Umbach, Ph.D.
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Attachments:

Hawley's Condensed Chemical Dictionary, 12th edition, pages 782 and 1217
CRC Handbook of Chemistry and Physics, 77th edition, pages 3-163 and 3-464
Terminal Disclaimer over U.S. Patent No. 6,747,174

Customer Number
22850

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methyl-p-toluenesulfonate. CAS: 80-48-8. $CH_3C_6H_4SO_3CH_3$.
Properties: White, damp crystals; solidification point 24C; bp 157C (8 mm Hg); decomposes 262C. A vesicant material, insoluble in water, soluble in alcohol and benzene.
Grade: 97% min.
Hazard: Toxic by ingestion and inhalation, strong irritant to skin and eyes.
Use: Accelerator, methylating agent, catalyst for alkyd resins.

methyl-p-tolyl ketone. See methyl acetophenone.

methyltrichlorosilane. CAS: 75-79-6. CH_3SiCl_3.
Properties: Colorless liquid, bp 66.4C, d 1.270 (25/25C), refr index 1.4085 (25C), flash p 8F (−13.3C), readily hydrolyzed by moisture with the liberation of hydrogen chloride.
Derivation: By Grignard reaction of silicon tetrachloride and methylmagnesium chloride.
Hazard: Flammable, dangerous fire risk, may form explosive mixture with air. Strong irritant.
Use: Intermediate for silicones.

methyl tricosanoate. $CH_3(CH_2)_{21}COOCH_3$.
The methyl ester of tricosanoic acid.
Properties: White, wax-like solid. Insoluble in water, soluble in alcohol and ether, mp 55–56C. Combustible.
Grade: Purified 96% and 99.5%.
Use: Intermediate in organic synthesis, biochemical research.

methyl tridecanoate. $CH_3(CH_2)_{11}COOCH_3$.
The methyl ester of tridecanoic acid.
Properties: Colorless liquid, insoluble in water, soluble in alcohol and ether, mp 5.5C, bp 130–132C (4 mm Hg) refr index 1.4327 (25C). Combustible.
Derivation: Esterification of tridecanoic acid with methanol, followed by fractional distillation.
Grade: Purified 96% and 99.5%.
Use: Intermediate in organic synthesis, biochemical research, reference standard in gas chromatography.

methyl trimethylolmethane. See trimethylol ethane.

"Methyl Trithion" [*Stauffer*]. TM for an insecticide-acaricide containing various percentages of S-(p-chlorophenylthio)methyl-O,O-dimethyl phosphorodithioate. Available as liquid or powder.
Hazard: Cholinesterase inhibitor.

β-methylumbelliferone. (7-hydroxy-4-methylcoumarin; BMU). $C_{10}H_8O_3$.
Properties: White to light tan powder, mp 186–188C, soluble in concentrated sulfuric acid, partly soluble in ethanol, isopropanol, 5% aqueous sodium carbonate solution, very slightly soluble in water, very dilute aqueous alkaline solutions give a bright blue-white fluorescence in daylight or UV light.
Grade: Technical.
Use: Optical bleach on soaps, starches and laundry products, suntan lotions.

2-methylundecanal. See methylnonylacetaldehyde.

methylundecanoate. $(CH_3(CH_2)_9COOCH_3$.
The methyl ester of undecanoic acid.
Properties: Colorless liquid, insoluble in water, soluble in alcohol and ether, bp 123C (10 mm Hg), refr index 1.4270 (25/4C). Combustible.
Derivation: Esterification of undecanoic acid with methanol, followed by fractional distillation.
Grade: Purified 96%, 99.5%.
Use: Organic intermediate for synthesis, flavoring, biochemical research.

5-methyluracil. See thymine.

methylvinyldichlorosilane. $(CH_3)(C_2H_3)SiCl_2$.
Properties: Colorless liquid, bp 92C, d 1.08 (25C), refr index 1.4270 (25C), flash p 40F (4.4C), soluble in benzene and ether, reacts with methanol and water.
Derivation: From methyldichlorosilane and acetylene or vinyl chloride.
Hazard: Flammable, dangerous fire risk. Irritant.
Use: Manufacture of silicones.

methyl vinyl ether. See vinyl methyl ether.

methyl vinyl ketone. Legal label name for vinyl methyl ketone.

2-methyl-5-vinylpyridine. $CH_3C_5H_3NCH{:}CH_2$.
Properties: Clear to faintly opalescent liquid, d 0.978–0.982 (20/20C), bp 181C, refr index 1.5400–1.5454 (20C), fp (anhydrous) −14.3C, flash p (TOC) 165F (73.9C). Combustible.
Use: Monomer for resins, oil additive, ore flotation agent, dye acceptor.

methyl violet. (Gentian Violet, USP; hexamethyl-p-rosaniline chloride; CI 42555). CAS: 8004-87-3. $C_{25}H_{30}N_3Cl$.
Properties: Green powder, soluble in water and chloroform, partially soluble in alcohol and glycerol.
Use: Medicine (topical antibacterial and anti-

185.2C, fp −90C, flash p (OC) 165F (73.9C), insoluble in water. Combustible.
Use: Polymers, emulsion paints.

vinyl-2-ethylhexyl ether. CAS: 103-44-6.
$CH_2{=}CHOCH_2CH(C_2H_5)C_4H_9$.
Properties: Liquid, d 0.8102 (20/20C), bp 177.7C, fp −100C, flash p (OC) 135F (57.2C), autoign temp 395F (201.6C), insoluble in water. Combustible.
Hazard: Moderate fire and explosion risk.
Use: Intermediate for pharmaceuticals, insecticides, adhesives, viscosity index improver.

2-vinyl-5-ethylpyridine.
$(CH_2{=}CH)C_5H_3N(C_2H_5)$.
Properties: Liquid, d 0.9449 (20/20C), bp 138C (100 mm Hg), vap press 0.1 mm Hg (20C), fp −50.9C, insoluble in water, flash p (COC) 200F (93.3C). Combustible.
Use: Copolymer, synthesis.

vinyl fluoride. (fluoroethylene). CAS: 75-02-5.
$CH_2{=}CHF$.
Properties: Colorless gas, bp −72C, insoluble in water, soluble in alcohol and ether.
Hazard: Flammable, dangerous fire and explosion risk. Toxic by inhalation. TLV (as F): 2.6 mg/m³ of air.
Use: Monomer. See polyvinyl fluoride.

vinylidene chloride. (VC). CAS: 75-35-4.
$CH_2{=}CCl_2$.
Properties: Colorless liquid, fp −122.53C, bp 37C, flash p (OC) 14F (−10C), insoluble in water, autoign point 856F (457C), readily polymerizes. Commercial product contains small proportion of inhibitor.
Hazard: Flammable, dangerous fire risk, explosive limits in air 5.6–11.4%. Toxic by inhalation. TLV: 5 ppm in air.
Use: Copolymerized with vinyl chloride or acrylonitrile to form various kinds of saran. Other copolymers are also made. Adhesives; component of synthetic fibers.
See also saran.

vinylidene fluoride. (1,1-difluoroethylene). CAS: 75-38-7. $H_2C{=}CF_2$. A monomer.
Properties: Colorless gas with faint ethereal odor, bp −83C (1 atm), fp −144C (1 atm), d (liquid) 0.617 (24C), slightly soluble in water, soluble in alcohol and ether.
Derivation: Interaction of hydrogen with dichlorodifluoroethane.
Grade: 99% min purity.
Hazard: Flammable, dangerous fire risk, explosive limits in air 5.5–21%. Toxic by inhalation. TLV (as F): 2.5 mg/m³ of air.
Use: Polymers and co-polymers, chemical intermediate.
See polyvinylidene fluoride.

vinylidene resin. (polyvinylidene resin). A polymer in which the unit structure is $(-H_2CCX_2-)$, in which X is usually chlorine, fluorine, or cyanide radical. Examples are saran and "Vitron" A.

vinyl isobutyl ether. (isobutyl vinyl ether; IVE). CAS: 109-53-5. $CH_2{=}CHOCH_2CH(CH_3)_2$.
Properties: Colorless liquid, d 0.7706 (20/20C), bp 83.3C, vap press 68 mm Hg (20C), fp −132C, refr index 1.3938, flash p (OC) 15F (−9.4C), very slightly soluble in water, soluble in alcohol and ether, easily polymerized.
Derivation: Catalytic union of acetylene and isobutyl alcohol.
Method of purification: Washing with water, drying in presence of alkali and distillation from metallic sodium.
Grade: Technical.
Hazard: Flammable, dangerous fire risk.
Use: Polymer and co-polymers used in surgical adhesives, coatings, and lacquers; modifier for alkyd and polystyrene resins; plasticizer for nitrocellulose and other plastics; chemical intermediate.

vinylmagnesium chloride. $CH_2{=}CHMgCl$.
Usually supplied dissolved in tetrahydrofuran.
Use: Grignard reagent.

vinyl methyl ether. (methyl vinyl ether; methoxyethylene; MVE). CAS: 107-25-5.
$CH_2{=}CHOCH_3$.
Properties: Colorless compressed gas, or colorless liquid, d 0.7500 (20/20C), bp 6.0C, vap press 1052 mm Hg (20C), flash p −60F (−51C), fp −121.6C, slightly soluble in water, soluble in alcohol and ether, easily polymerized, commercial material contains a small proportion of polymerization inhibitor.
Derivation: Catalytic reaction of acetylene and methanol.
Grade: Technical (95% min), pure.
Hazard: Highly flammable, severe fire and explosion risk, explosive limits in air 2.6–39%.
Use: Copolymers used in coatings and lacquers; modifier for alkyl, polystyrene, and ionomer resins; plasticizer for nitrocellulose and adhesives.
See polyvinyl methyl ether.

vinyl methyl ketone. (3-buten-2-one; methyl vinyl ketone). CAS: 78-94-4.
$CH_3COCH{=}CH_2$.
Properties: Colorless liquid, d 0.8636 (20/4C), bp 80C, soluble in water and alcohols, flash p 20F (−6.6C) (CC).

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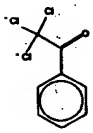
CIP

No.	Name Synonym	Mol. Form. Mol. Wt.	CAS RN mp/°C	Merck No. bp/°C	Beil. Ref. den/g cm^{-3}	Solubility n_D
5870	Ethanone, 1-(2-thienyl)-	C_6H_6OS 126.18	88-15-3 10.5	 213.5	5-17-09-00387 1.1679^{20}	H_2O 2; EtOH 5; eth 5; ctc 3 1.5667^{20}
5871	Ethanone, 2,2,2-trichloro-1-phenyl-	$C_8H_5Cl_3O$ 223.49	2902-69-4	 256.5	4-07-00-00645 1.425^{16}	eth 4; EtOH 4
5872	Ethanone, 2,2,2-trifluoro-1-phenyl-	$C_8H_5F_3O$ 174.12	434-45-7 -40	 153	4-07-00-00637 1.279^{20}	 1.4583^{20}
5873	Ethanone, 1-(2,3,4-trihydroxyphenyl)- Gallacetophenone	$C_8H_8O_4$ 168.15	528-21-2 173	 4248	4-08-00-02721	H_2O 3; EtOH 4; eth 3; ace 4
5874	Ethanone, 1-(2,3,4-trimethoxyphenyl)-	$C_{11}H_{14}O_4$ 210.23	13909-73-4 15.8	 296	4-08-00-02721	 1.5384^{20}
5875	Ethanone, 1-(2,4,5-trimethylphenyl)-	$C_{11}H_{14}O$ 162.23	2040-07-5 10.5	 246.5	4-07-00-00751 1.0039^{15}	H_2O 1; EtOH 4; eth 4; bz 4 1.541^{15}
5876	Ethanone, 1-(2,4,6-trimethylphenyl)-	$C_{11}H_{14}O$ 162.23	1667-01-2	 241; 120^{12}	4-07-00-00749 0.9754^{20}	H_2O 1; EtOH 3; eth 3; ace 3 1.5175^{20}
5877	Ethanone, 1-(3,4,5-trimethylphenyl)-	$C_{11}H_{14}O$ 162.23	2047-21-4 4.7	 101.5^3	4-07-00-00749 1.0037^{25}	 1.5420^{25}
5878	Ethenaminium, *N,N,N*-trimethyl-, hydroxide Neurine	$C_5H_{13}NO$ 103.16	463-88-7	6393	3-04-00-00442	H_2O 4; eth 4; EtOH 4
5879	Ethene Ethylene	C_2H_4 28.05	74-85-1 -169	3748 -103.7	4-01-00-00677 0.5678^{-104}	H_2O 1; EtOH 2; eth 3; ace 2 1.363^{100}
5880	Ethene, bromo- Vinyl bromide	C_2H_3Br 106.95	593-60-2 -137.8	 15.8	4-01-00-00718 1.4933^{20}	H_2O 1; EtOH 3; eth 3; ace 3 1.4380^{20}
5881	Ethene, 1-bromo-2-chloro- Ethylene, 1-bromo-2-chloro-	C_2H_2BrCl 141.39	3018-09-5 -86.7	 84.6	3-01-00-00671 1.7972^{15}	 1.4982
5882	Ethene, 2-bromo-1,1-dichloro-	C_2HBrCl_2 175.84	5870-61-1 -88.5	 107.5	4-01-00-00720 1.9053^{15}	
5883	Ethene, 1-bromo-1,2-difluoro- 1-Bromo-1,2-difluoroethylene	C_2HBrF_2 142.93	358-99-6	 19	0-01-00-00189 1.8434^{25}	 1.3846^0
5884	Ethene, chloro- Vinyl chloride	C_2H_3Cl 62.50	75-01-4 -153.7	9898 -13.3	4-01-00-00700 0.9106^{20}	H_2O 2; EtOH 3; eth 4 1.3700^{20}
5885	Ethene, 2-chloro-1,1-difluoro- 1,1-Difluoro-2-chloroethylene	C_2HClF_2 98.48	359-10-4 -138.5	 -18.5	4-01-00-00703	
5886	Ethene, 1-chloro-2-ethoxy- 2-Chlorovinyl ethyl ether	C_4H_7ClO 106.55	928-56-3	 120	4-01-00-02081 1.0386^{20}	 1.4385^{20}
5887	Ethene, (2-chloroethoxy)- 2-Chloroethyl vinyl ether	C_4H_7ClO 106.55	110-75-8 -70	2139 108	4-01-00-02051 1.0495^{20}	EtOH 4; eth 4; chl 2 1.4378^{20}
5888	Ethene, 1-chloro-2-iodo-	C_2H_2ClI 188.40	20244-71-7 -38.2	 119	3-01-00-00674 2.2298^{25}	
5889	Ethene, chlorotrifluoro- Chlorotrifluoroethylene	C_2ClF_3 116.47	79-38-9 -158	 -27.8	4-01-00-00704 1.54^{-60}	bz 3; chl 3 1.38^0
5890	Ethene, 1,1-dibromo-	$C_2H_2Br_2$ 185.85	593-92-0	 92	4-01-00-00720 2.1779^{21}	EtOH 3; eth 3; ace 3; bz 3
5891	Ethene, 1,2-dibromo-, (*E*)- *trans*-1,2-Dibromoethylene	$C_2H_2Br_2$ 185.85	590-12-5 -6.5	 108	4-01-00-00721 2.2308^{20}	H_2O 1; EtOH 4; eth 4; ace 3 1.5505^{18}
5892	Ethene, 1,2-dibromo-, (*Z*)- *cis*-1,2-Dibromoethylene	$C_2H_2Br_2$ 185.85	590-11-4 -53	 112.5	4-01-00-00720 2.2464^{20}	H_2O 1; EtOH 4; eth 4; ace 3 1.5428^{20}
5893	Ethene, 1,1-dibromo-2-ethoxy- Ethylene, 1,1-dibromo-2-ethoxy	$C_4H_6Br_2O$ 229.90	77295-79-5	 172; 74^{15}	2-01-00-00473 1.7697^{18}	eth 4
5894	Ethene, 1,1-dichloro- Vinylidene chloride	$C_2H_2Cl_2$ 96.94	75-35-4 -122.5	9900 31.6	4-01-00-00706 1.213^{20}	H_2O 1; EtOH 3; eth 4; ace 3 1.4249^{20}
5895	Ethene, 1,2-dichloro-, (*E*)- *trans*-1,2-Dichloroethylene	$C_2H_2Cl_2$ 96.94	156-60-5 -49.8	86 48.7	4-01-00-00709 1.2565^{20}	H_2O 2; EtOH 5; eth 5; ace 5 1.4454^{20}
5896	Ethene, 1,2-dichloro-, (*Z*)- *cis*-1,2-Dichloroethylene	$C_2H_2Cl_2$ 96.94	156-59-2 -80	86 60.1	4-01-00-00707 1.2837^{20}	H_2O 2; EtOH 5; eth 5; ace 5 1.4490^{20}
5897	Ethene, 1,1-dichloro-2,2-difluoro-	$C_2Cl_2F_2$ 132.92	79-35-6 -116	 19	4-01-00-00711 1.555^{-20}	 1.383^{-20}
5898	Ethene, 1,2-dichloro-1,2-difluoro-	$C_2Cl_2F_2$ 132.92	598-88-9 -130.5	 21.1	 1.4950^0	 1.3777^0
5899	Ethene, 1,2-dichloro-1-ethoxy-	$C_4H_6Cl_2O$ 141.00	42345-82-4	 128.2	3-01-00-02950 1.1972^{25}	 1.4558^{17}
5900	Ethene, 1,1-dichloro-2-fluoro- 1,1-Dichloro-2-fluoroethylene	C_2HCl_2F 114.93	359-02-4 -108.8	 37.5	4-01-00-00711 1.3732^{18}	 1.4031^{18}
5901	Ethene, 1,1-diethoxy-	$C_6H_{12}O_2$ 116.18	2678-54-8	 68^{100}	4-01-00-03420 0.7932^{20}	 1.3843^{21}
5902	Ethene, 1,1-difluoro- Vinylidene fluoride	$C_2H_2F_2$ 64.03	75-38-7 -144	 -85.7	4-01-00-00696	eth 4; EtOH 4
5903	Ethene, 1,2-difluoro-, (*Z*)- *cis*-1,2-Difluoroethylene	$C_2H_2F_2$ 64.03	1630-77-9			
5904	Ethene, 1,2-diiodo-, (*Z*)-	$C_2H_2I_2$ 279.85	590-26-1 -14	 72.5^{16}	4-01-00-00724 3.0625^{20}	eth 3; chl 3
5905	Ethene, ethoxy- Ethyl vinyl ether	C_4H_8O 72.11	109-92-2 -115.8	 35.5	4-01-00-02049 0.7589^{20}	H_2O 2; EtOH 3; eth 5; ctc 2 1.3767^{20}
5906	Ethene, fluoro- Vinyl fluoride	C_2H_3F 46.04	75-02-5 -160.5	 -72	4-01-00-00694	H_2O 1; EtOH 3; ace 3
5907	Ethene, iodo- Iodoethylene	C_2H_3I 153.95	593-66-8	 56	4-01-00-00722 2.037^{20}	eth 4; EtOH 4 1.5385^{20}
5908	Ethene, methoxy- Methyl vinyl ether	C_3H_6O 58.08	107-25-5 -122	 5.5	4-01-00-02049 0.7725^0	H_2O 2; EtOH 4; eth 4; ace 4 1.3730^0
5909	Ethene, (methylsulfonyl)-	$C_3H_6O_2S$ 106.15	3680-02-2	 $122\text{-}4^{24}$	4-01-00-02065 1.2117^{20}	eth 3; ace 3 1.4636^{20}

STRUCTURAL FORMULAS OF ORGANIC COMPOUNDS (continued)

In numeric order as they occur in the Table of Physical Constants of Organic Compounds

5871



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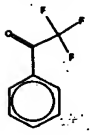

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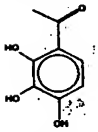

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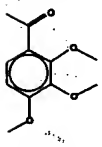

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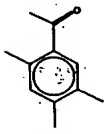

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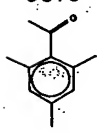

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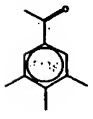

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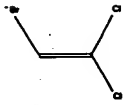

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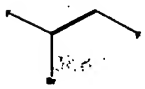

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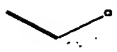

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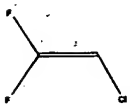

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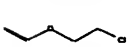

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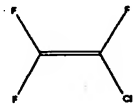

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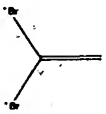

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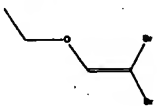

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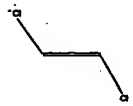

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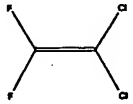

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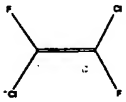

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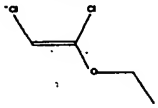

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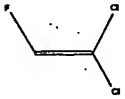

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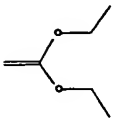

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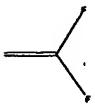

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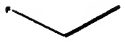

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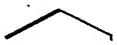

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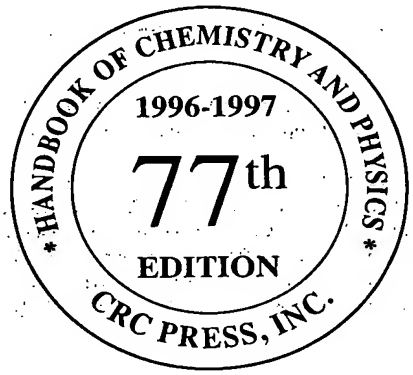

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